AMENDMENTS TO THE SPECIFICATION

Please amend the sentence starting on page 2, line 10 as follows:

Figure 2 shows an example ~~histograms ;~~ histogram;

Please amend the paragraph starting on page 3, line 18 as follows:

Figure 2 shows the situation where most of the pixels ~~falling~~ fall within two areas. This can be applied to an image by selecting the two largest peaks, or by using multiple peaks.

Please amend the paragraph starting on page 4, line 6 as follows:

At 520, the histogram is mapped, using the centerline locations loc1, loc2, and the widths of the peaks w1 and w2. A monotonous increasing mapping curve path m(g) is formed. This curve path is monotonic, in the sense that it is continually increasing. However, it is non-linear, in the sense that its slope is changing.

Please amend the equation starting on page 4, line 19 as follows:

$$[[\, f(g) = \frac{-1 + exp\frac{g - loc1}{w1}}{1 + exp\frac{g - loc1}{w1}} + \frac{-1 + exp\frac{g - loc2}{w2}}{1 + exp\frac{g - loc2}{w2}} \ \ldots]]$$

$$f(g) = \frac{-1 + \exp\frac{g - loc1}{w1}}{1 + \exp\frac{g - loc1}{w1}} + \frac{-1 + \exp\frac{g - loc2}{w2}}{1 + \exp\frac{g - loc2}{w2}}$$

Please amend the sentence starting on page 5, line 3 as follows:

The mapping curve is then scaled at ~~520~~ 530 to scale the mapping curve between zero and 2^8 - 1 = 255 according to:

Please amend the equation starting on page 5, line 6 as follows:

[[$m(g) = 255x\frac{f(g)-f(\min(g))}{f(\max(g))-f(\min(g))}$]]

$$m(g) = 255\times\frac{f(g)-f(\min(g))}{f(\max(g))-f(\min(g))}$$

Please amend the equation starting on page 6, line 1 as follows:

[[$m(g) = (2^n-1)x\frac{f(g)-f(\min(g))}{f(\text{mas}(g))-f(\min(g))}$]]

$$m(g) = (2^n-1)\times\frac{f(g)-f(\min(g))}{f(\max(g))-f(\min(g))}$$